

# Knowledge Organisers 1st Autumn Term

Science

**History** 

Geography

Art

**PSHE** 

Latin

**Computing** 

R.E.

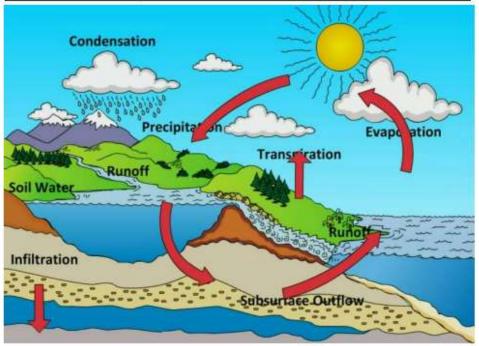
Music

P.E.

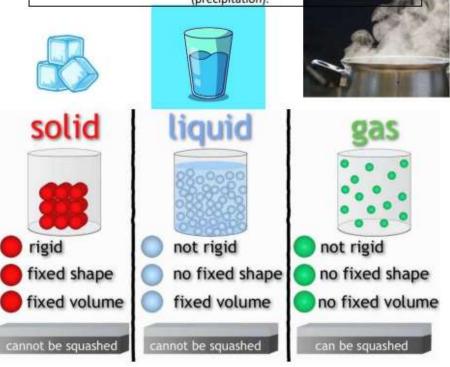
**Class 3 - Year 5 & 6** 

# Knowledge Organiser - Science - Year 4 - States of Matter

Vocabulary	
State	states of matter are solids, liquids and gases
Particle	a small portion of matter
Melt	when something becomes a liquid through heating
Cool	bring to a lower temperature
Thermometer	instrument for measuring temperature
Evaporation	process of turning liquid into vapour
Condensation	vapour or gas turns into a liquid
Reversible	When materials can be changed back to how they were before the reaction took place.
Irreversible	This is when materials cannot be changed back to how they were before.



Key Knowledge		
I know the prop	erties and behavior of particles in so	lids and liquids.
l u	nderstand that gas is all around us.	**************************************
I know ho	w heating a substance can change it	s state.
I understand	which changes are reversible and i	rreversible.
I know that melt	ing means turning a solid into a liqu will reverse this.	id and cooling it
	t puddles disappear when they evap ater vapour condenses into clouds.	oorate and the
I kn	ow that water vapour turns into clou	ıds.
I know that	water cools and condenses into rain (precipitation).	n and falls
		0



# Knowledge Organiser: The Birth of the British Empire - History - Year 5

Key vocabulary	Definition	
Empire	An empire is a group of countries ruled over by a single monarch or ruler	
Imperial	Belonging or relating to an empire	
Trade	Buying, selling or exchanging goods between people, companies or countries	
Colony	A country or area controlled by another country that is often far away	
Slave	A person who is owned by another person and has to obey them	
Merchant	A person involved in trading goods	

	Key people
John Cabot	An Italian explorer, funded by England, who 'discovered' lands in North America
Sir Walter Raleigh	Founded a colony in Virginia
Major-General Robert Clive	A military commander who helped secure an Indian empire for Britain
Elizabeth I	Queen of England 1508-1603. She gave roya approval to the East India Company
General Wolfe	He led Britain to victory at the Battle of Quebec

#### Timeline

1585 First English colonies are set up in North America, Sir Walter Raleigh organised a settlement in Virginia

16205 English colonies in the West Indies were formed

1754 The Seven Years War begins

# 1497

An Italian named John Cabot, financed by the English, discovers new land in North America

Elizabeth I grants royal approval to merchants trading in the East Indies and the East India Company is formed

1600

England took over the Dutch territories 'New Netherlands', which included 'New Amsterdam'. England renamed it 'New York'

1664

The end of the Seven Years War. England had been victorious and gained new land from France

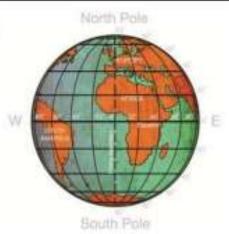
1763

Key Knowledge:	
I know that	t Britain had an empire.
	origins of the British Empire in global trade.
	and how British control spread th India after 1750.
	the victories of the Seven Years o patriotism in Britain.
wanted an empire	ning to understand why Britain and how it wanted to project a mage around the world.

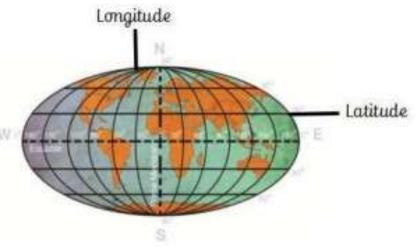
# Knowledge Organiser- Spatial Sense - Geography - Year 5

Key Vocabulary	Definition	
Prime meridian line	An imaginary line that divides the earth into two sections to show the EASTERN and WESTERN hemispheres. It also used as the basis for world time zones.	
Longitude	Imaginary lines parallel to the prime meridian line that help map makers locate places with accuracy. (Vertical lines)	
Latitude	Imaginary lines parallel to the equator that help map makers to locate places with accuracy. (Horizontal lines)	
Eastern Hemisphere	A term used to describe places that are east of the meridian line.	
Western Hemisphere	A term used to DESCribe places that are WEST of the meridian line.	
Relief maps	A map that uses shading and colours to indicate the height of the land.	

Key Knowledge:	
I understand that map makers draw imaginary lines to divide the world into sections.	
I can locate places in the Eastern and Western hemispheres.	
I can use coordinates to locate places on a map.	
I know how scale is used on a map.	
I understand that a relief map shows heights on the map.	

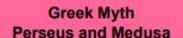




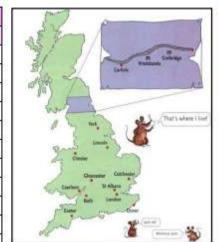


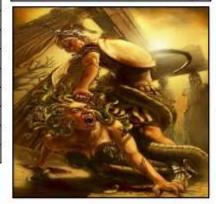
# Latin Knowledge Organiser - Unit 1: Meet the Family

Key Vocabulary		
Latin	English	
quis es?	Who are you? singular	
quī estis?	Who are you? plural	
māter	Mother	
pater	Father	
fīlia	Daughter	
fīlius	Son	
īnfāns	Little child	
servī	Slaves	
sum	Iam	
salvē	Hello singular	
salvēte	Hello plural	
omnēs	Everyone	
quis?	Who?	
quid?	What?	
Fēlīx diēs tibi sit	Happy birthday (may you have a happy day)	
grātiās tibi agō	I thank you	
fāmōsa	Famous	
euge!	Hurrah!	
sedāte!	Sit down! (imperative/bossy verb)	



# To understand the relevance of learning Latin. To learn to say hello and goodbye. To write simple sentences using the verb esse (to be). To understand the difference between singular and plural. To translate the description of a character from a Greek myth.







Unit Motto carpe diem = seize the day

### **Grammar and Phonics**

No capital letters are used in Latin apart from when you are writing someone's name. Don't translate names.

The letter v in Latin makes the sae sound as the letter w in English.

Male names end in -us, female names end in -a.

# Knowledge Organiser- Design - Visual Arts - Year Four

Key Vocabulary	Definition	
design	We use the word 'design' to refer to the way the artist made the elements of a piece of art work together	
space	The distance within, around and between things in art.	
value	The lightness or darkness of a colour	
Two-dimensional	An object with just height and width dimensions	
Three-dimensional	An object with three dimensions – height, width and depth	
texture	How something feels or how something looks like it feels	
collage	Collage is an artwork made up of assorted materials glued to a paper, board, or canvas	
form	Elements of shape that make up an artwork	

	Key Knowledge
	I know what collage is.
I can describe 31	sculptures by looking at the shape and form.
Lunder	stand how line drawings are created.
I know t	he difference between 2D and 3D art.





Oval circle by Barbara Hepworth



Tawny Owl by Alice Lee



Foxy and Frankie by Ben Nicholson



Bird and Children By Paul Klee



The fall of Icarus by Henri Matisse



The Three Musicians by Pablo Picasso





⇎

# Knowledge Organiser - PSHE - Being Me in My World - Year Six

Vocabulary	
Maslow's hierarchy of human needs	The most fundamental needs at the bottom and the need for self- actualization and self-transcendence at the top.
Empathy	The ability to understand and share the feelings of another.
Collaboration	The action of working with someone to produce something.
Legal	Relating to the law. 'A legal requirement'.
Illegal	Contrary to or forbidden by law, especially criminal law.
Lawful	Conforming to, permitted by, or recognised by law or rules.
Democracy	Rule by the people.





# Key Knowledge

I know that there are universal rights for all children but for many children these rights are not met.

I can make choices about my own behaviour because I understand how rewards and consequences feel and I understand how these relate to my rights and responsibilities.

I can understand how democracy and having a voice benefits the school community.

#### Being Me in My World

Maslow's Triangle - Power Point Slide 1 - Ages 16-11 - Piece 3

Self-active setion: Personal the leneral Development services sining reconstructed of respectioning reconstructed of respec-

> Self-cetaers: Self-certains: Self-certains:

Love & Balonging: Friends to home more rule Once couldly Seng understood

Safety feeds: Security Professibly labor append danger or freeze

Physiological Hembs Fund Shelor Warren Steep

# Reflective Questions Ask me this...

What is your ambition for when you leave school?

How do you feel about some of your needs being met and some of them not yet being met? Do you have a choice in how you respond to this?

Which are the six most important rights you would like us to all share at our school?

#### Knowledge Organiser- Repetition in Shapes - Computing - Year 4

Key Vocabulary	Definition
Program	the entire solution to the task, and an implementation of the algorithm as code
Turtle	an arrow or turtle image on screen that draws a line as it is programmed
Command	an instruction given to control a program
Code Snippet	this could be the same as a program; it can have several sets of commands in one program
Algorithm	the part of the design of the program that is precise instructions to be implemented as code
Debug	the process of finding and correcting errors in your code
Decompose	break something down into smaller parts
Procedure	a named code snippet that can be run multiple times.

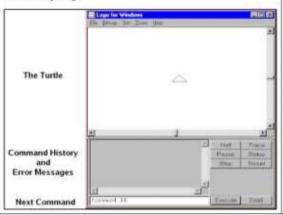
#### The Basics of FMS Logo

-What is FMS Logo? Logo is a text-based programming language, where we can type commands which are then drawn on the screen.

-Logo helps us to learn how to use programming language, whilst also being creative and using problem-solving skills.

SCHOOL SECTION		
NO.		R
A SECOND	-	

#### The Display:



#### Basic Commands:



- -FD: Forwards. Always followed by a space and the number of steps, e.g. FD 50
- -BK: Backwards. As above, e.g. BK 50
- -LT: Left turn. Always followed by a space and then the degrees to turn, e.g. LT 90
- -RT: Right turn. As above, e.g. RT 90
- -CS: Clears any pen marks on your screen and gets the turtle back to the centre.
- -PU: Stops turtle from leaving a pen trail.
- -PD: Makes turtle leave a pen trail again.

#### Key Knowledge:

To identify that accuracy in programming is important

To create a program in a text-based language.

To be able to explain what 'repeat' means

To modify a count-controlled loop to produce a given outcome.

To decompose a task into small steps

To create a program that uses count-controlled loops to produce a given outcome.

#### Sequencing and Algorithms

#### -A sequence is a pattern or process in which one thing follows another.

#### -We design **algorithms** (sets of instructions for performing a task) to help us program the sequence that we require to achieve our desired outcomes.

-Programming is the process of

keying in the code recognized by the computer (using your algorithm).

#### **Trialling and Debugging**

-Programmers do not put their computer programs straight to work.

They **trial** them first to find any errors:

 Sequence errors: An instruction in the sequence is wrong or in the wrong place.

-Keying errors: Typing in the wrong code.

-Logical errors: Mistakes in plan/thinking.

 -If your algorithm does not work correctly the first time, remember to debug it.

#### **Programming Patterns**

- -Patterns: Patterns are things that repeat in a logical way. In everyday life, patterns are everywhere!
- -Patterns in Logo: Instead of typing in the code to create each individual shape, we can save time by repeating a sequence of instructions. We use the 'repeat' function.
- -Repeat: Type the command 'repeat' this repeats commands a set number of times. The number following repeat is the number of times to repeat the code, and the code to be repeated is in square brackets, e.g. repeat 4 [FD 100 LT 90]

The above code will repeat FD 100 LT 90 four times.

-Creating Shapes and Loops: To make shapes, we need to know the angles of corners of different shapes (see right). Using the repeat function with shapes can help us to make spirals.



FD 200







# R.E. Year 4 Autumn 1 Knowledge Organiser Enquiry: Buddhism - Is it possible for everyone to be happy?

Key vocabulary	Definition	
Buddhism	A religion about the need to get rid of suffering	
Buddhist	A person who follows Buddhism	
Prince Siddhattha Gautama	The prince who founded Buddhism. The first Buddha.	
Enlightenment	The understanding of how to be happy and free from suffering.	
8 fold path	Buddhists rules to help them live good lives	

Key Knowledge	
can say the sort of things that make me happy.	-
can explain whether being rich would make me happy.	Т
know some key facts about the first Buddha, Prince Siddhattha.	7
know that Prince Siddhattha was rich but he was not happy - then ound Enlightenment.	he
can explain how living by the rules of the 8 Fold Path may help a Buddhist to be happy.	
I can give examples of how helping other people can make me hap	py.



Siddharta Gautama is known as the Buddha.

He was born in 580 BCE in the village of Lumbini in Nepal.

He discovered true happiness called "Enlightenment" though meditation.

An important rule for Buddhists is to lead a good life which helps others and does not hurt people or animals.

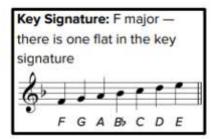
Buddhists believe they will be happy if they help others.

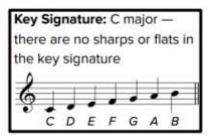


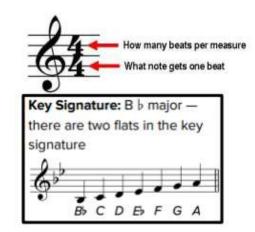


## KNOWLEDGE ORGANISER MUSIC MUSICAL STRUCTURES YEAR 4 UNIT 1

Key Vocabulary	Definition	
Minim		
Crotchet		
Dotted crotchet	<b>‡</b> .	
Quaver	) <u>,</u>	
Tempo	The speed at which music is played	
Dynamics	Levels of sound in music (soft to loud)	
20 <sup>th</sup> century orchestral	A group of instruments including brass, strings and woodwind	
Soul ballad	Traditional blues and gospel music	
R&B	Rhythm and blues originating in African communities in 1940s	
Structure	The structure of a song, e.g. intro, verse, chorus outro	
Pattern	Same sequence of notes repeated.	







Time Signature: 4/4 — there are four crotchet beats in a bar

# Songs covered

- Hoedown
- I'm always there
- Martin Luther King







# Knowledge Organiser - OAA - Year 6



Key Vocabulary	<b>Definition</b>	
Cooperate	To work together towards the same goal.	
Мар	A pictorial representation of an area.	
Route	A way of getting from one point to another.	
Orienteering	A sport in which people run through a series of waypoints (controls) to guide then	

# **Skill Development**

Keep the map set (or orientated) so that you know where you are on the map and which direction you need to travel. When turning, make sure the map does not turn, and stays 'set'.

To communicate and co-operate effectively with others

To follow a set route on a map

To record clues and decipher a code.

